ABOUT THE MAJOR

Geology is the study of Earth including its structure, the materials of which it is composed and the processes that shape it. Geology is also concerned with the history of Earth and its life forms, the application of geologic knowledge to the search for natural resources, and understanding how humans interact with our physical environment. It is the study of rocks, minerals and water; of fossils, shorelines and mountains; of earthquakes, volcanoes and landslides. Although geology incorporates elements of chemistry, biology and physics it puts them together in a way that provides a unique framework for understanding planet earth. The Environmental Geology concentration prepares students to work in conservation, management and remediation of natural resources. This concentration includes a wider variety of courses than Professional Geology and requires more Biology and Chemistry. Students have the option of pursuing coursework in Sustainability, Geographic Information Systems and Environmental Policy.

ABOUT THIS MAP

This program map is intended ONLY as a guide for students to plan their course of study. It does NOT replace any information in the Undergraduate Catalog, which is the official guide for completing degree requirements. Use this map to help plan and guide your experience at UWG, including academic, co-curricular, and discovery opportunities. Everyone's experience is different and activities in this map are suggestions. Always consult with your advisors whenever possible for new opportunities and updates.

WHERE CAN YOU GO WITH THIS DEGREE?

- Archaeologist
- Environmental Field Technician
- Environmental Protection Specialist
- Environmental Scientist
- Forester
- Geologist
- GIS Analyst
- Hydrographic Surveyor
- Quarry Manager
- Sustainability Engineer

ADD A CERTIFICATE

- Atmospheric Science
- Cultural Heritage Management
- Geographic Information Systems
- Human Rights Advocacy
- Museum Studies
- Stream Restoration
- Wildlife Ecology

GEOLOGY **ENVIRONMENTAL CONCENTRATION**

Bachelor of Science

60 39 21

Visit westga.edu/program-maps for the latest version of this major map.



VISIT WOLFWATCH FOR MORE **INFORMATION.**



HAVE A QUESTION? CHECK IN WITH YOUR ADVISOR!





CORE CREDIT HOURS

MAJOR CREDIT HOURS

ELECTIVE CREDIT HOURS



TERM 1: FALL

A1: ENGL 1101	3 CREDIT
English Composition I	HOURS
MATH 1111	3 CREDIT
College Algebra	HOURS
B2: XIDS 2002	2 CREDIT
(Recommended) First-Year Seminar	HOURS
F: GEOL 1121 + LAB	4 CREDIT
Introduction to Geosciences I	HOURS
D1: BIOL 1107 + LAB	4 CREDIT
Principles of Biology I + Lab	HOURS

- MILESTONES: COMPLETE ENGL 1101 WITH C OR BETTER COMPLETE MATH 1111 WITH B OR BETTER TARGET: 15 CREDIT HOURS COMPLETED (THIS EXAMPLE = 16)

TERM 2: SPRING				
A1: ENGL 1102	3 CREDIT			
English Composition II	HOURS			
A2: MATH 1113	4 CREDIT			
Precalculus	HOURS			
F: GEOL 1122 + LAB	4 CREDIT			
Introduction to Geosciences II	HOURS			

D1: BIOL 1108 + LAB (Required Course) Principles of Biology II

MILESTONES:

COMPLETE ENGL 1102 & MATH 1113 WITH C OR BETTER
COMPLETE GEOL 1121-1122 SEQUENCE
TARGET: 30 CREDIT HOURS COMPLETED (31)

4 CREDIT HOURS

16 FALL CREDIT HOURS + 15 SPRING CREDIT HOURS = 31 CREDIT HOURS

crush your Coursework	 Take the Intro Geology sequence GEOL 1121+L, and GEOL 1122+L your first and second semesters. Enroll in CHEM 1211. Get confident with Wolf Watch and your Program Map.
FIND YOUR PLACE	 Attend a Geoscience Club meeting or event such as River Cleanup, or a professional talk. Find other student organizations that match your interests.
BROADEN YOUR Perspectives	 Explore a new-to-you culture or language through your core courses. Make an effort to be inclusive of others as you meet new faces on campus.
CONNECT OFF-CAMPUS	 Meet our Alumni at the Geosciences Career Night (Spring). Go to events in the Carrollton Community.
TAKE CARE OF Yourself	 Build friendships with other students. Learn about resources on campus such as the Counseling Center, Student Health Services, Center for Academic Success, and the Campus Center.
PAVE YOUR Path	• Be proactive. Go to your professors' office hours, even before you need help in the class. These conversations can lead to connections.

TERM 1. FALL

TERM 1: FALL			
EM 1211 + LAB Course) Principles of Chemistry I	4 CREDIT HOURS	YOUR	 Choose a track: Professional or Environmental. Explore courses in the core and follow the Geology Program Map for the geology track you choose. Love something outside of geology? Earn a minor or
3004 gy and Geologic Mapping	4 CREDIT HOURS	CRUSH YOUR	a certificate!
1634 Course) Calculus I	4 CREDIT HOURS	E C	
3603 ntal Geology	3 CREDIT HOURS	œ	Ask your professors about their research and seek out your own opportunities to do research.
IES: ETE CHEM 1211/1211 WITH C OR BET ETE FIELD GEOLOGY (GEOL 3004) WITI		ID YOUI	 Start researching career paths. Become a TA for Physical Geology or Historical Geology.
OR COURSES OFFERED ONLY ALTERNA : 45 CREDIT HOURS COMPLETED (46)	TE YEARS	L	•
TERM 2: SPRING		BROADEN YOUR Perspectives	 Travel! Explore Travel Abroad opportunities or enroll in Regional Applications of Field Geology (offered summers) to see more of the US.
EM 1212 + LAB	4 CREDIT HOURS		• Participate in an internship.
Course) Principles of Chemistry II ATH 1401 Course) Elementary Statistics	3 CREDIT HOURS	IECT MPUS	Volunteer with a STEM school visit.
4093	3 CREDIT HOURS	CONN FF-CA	
RAL COMMUNICATION	3 CREDIT HOURS	C	
CIAL SCIENCES	3 CREDIT HOURS	ц	 Take a break from studying once in a while to enjoy events on campus.
IES: ETE CHEM 1212/1212L OR COURSES OFFERED ONLY ALTERNA : 60 CREDIT HOURS COMPLETED (62)	TE YEARS	TAKE CARE (YOURSELF	·
CREDIT HOURS + 16 SPRING CRE = 31 CREDIT HOURS	DIT HOURS	PAVE YOUR PATH	 Apply for scholarships and REU opportunities. Attend a professional conference to network and connect with the scientific community. Research graduate school programs if you're considering that pathway.
nformation: th Advisor and Faculty Mentor about GEOL 4082 bet	fore Year 3.		

YEAR 2

TERM 1: FALL				
F: CHEM 1211 + LAB (Required Course) Principles of Chemistry I	4 CREDIT HOURS	(OUR	VORK	 Choose a track: Professional or Environmental. Explore courses in the core and follow the Geology Program Map for the geology track you choose. Love something outside of geology? Earn a minor or
GEOL 3004 Field Geology and Geologic Mapping	4 CREDIT HOURS	CRUSH)	COURSEWOR	a certificate!
MATH 1634 (Required Course) Calculus I	4 CREDIT HOURS	C.	00	
GEOL 3603 Environmental Geology	3 CREDIT HOURS	~		 Ask your professors about their research and seek out your own opportunities to do research. Start researching career paths.
MILESTONES: • COMPLETE CHEM 1211/1211 WITH C OR BET • COMPLETE FIELD GEOLOGY (GEOL 3004) WI BETTER • PLAN FOR COURSES OFFERED ONLY ALTERN • TARGET: 45 CREDIT HOURS COMPLETED (46	TH C OR IATE YEARS	FIND YOU	PLACE	 Starresearching career paths. Become a TA for Physical Geology or Historical Geology.
	,			
		BROADEN YOUR	PERSPECTIVES	 Travel! Explore Travel Abroad opportunities or enroll in Regional Applications of Field Geology (offered summers) to see more of the US.
TERM 2: SPRING		BR	PE	
F: CHEM 1212 + LAB (Required Course) Principles of Chemistry II	4 CREDIT HOURS		S	 Participate in an internship. Volunteer with a STEM school visit.
D2: MATH 1401 (Required Course) Elementary Statistics	3 CREDIT HOURS	NECT	AMPU	
GEOL 4093 Risk Assessment	3 CREDIT HOURS	CON)FF-C/	
B1: ORAL COMMUNICATION	3 CREDIT HOURS		0	
E: SOCIAL SCIENCES	3 CREDIT HOURS	L.		 Take a break from studying once in a while to enjoy events on campus.
MILESTONES: • COMPLETE CHEM 1212/1212L • PLAN FOR COURSES OFFERED ONLY ALTERN • TARGET: 60 CREDIT HOURS COMPLETED (62)		TAKE CARE (YOURSELF	
15 FALL CREDIT HOURS + 16 SPRING CRI = 31 CREDIT HOURS	EDIT HOURS	PAVE YOUR	РАТН	 Apply for scholarships and REU opportunities. Attend a professional conference to network and connect with the scientific community. Research graduate school programs if you're considering that pathway.
Additional Information: • Speak with Advisor and Faculty Mentor about GEOL 4082 b	pefore Year 3.	1		

EAR 3

TERM 1: FALL

GEOL 3014 Mineralogy and Crystallography	4. CREDIT HOURS
GEOL 4082 Geological Problems	CREDIT HOUR
CHEM 2411 OR 3310 (Required Course) Organic Chemistry I or Analytica Chemistry	3/4 CREDIT HOURS
C: FINE ARTS/HUMANITES	3 CREDIT HOURS
E: SOCIAL SCIENCES	3 CREDIT HOURS

- MILESTONES: COMPLETE MINERALOGY (GEOL 3014) RESEARCH (GEOL 4082) OKAY ANY SEMESTER PLAN FOR COURSES OFFERED ONLY ALTERNATE YEARS TARGET: 75 CREDIT HOURS COMPLETED (77)

TERM 2: SPRING				
GEOL 4084 Hydrogeology	4 CREDIT HOURS			
GEOL 4083 OR 4014 Environmental Geochemistry or Geochemistry	4/3 CREDIT HOURS			
C: FINE ARTS/HUMANITES	3 CREDIT HOURS			
E: SOCIAL SCIENCES 3 HOURS				

- MILESTONES: Plan For Courses offered only alternate years Target: 90 credit hours completed (90/91)

14/15 FALL CREDIT HOURS + 13/14 SPRING CREDIT HOURS = 27/29 CREDIT HOURS

 Choose a track: Professional or Environmental. Explore courses in the core and follow the Geology Program Map for the geology track you choose. Love something outside of geology? Earn a minor or a certificate!
 Ask your professors about their research and seek out your own opportunities to do research. Start researching career paths. Become a TA for Physical Geology or Historical Geology.
 Travel! Explore Travel Abroad opportunities or enroll in Regional Applications of Field Geology (offered summers) to see more of the US.
 Participate in an internship. Volunteer with a STEM school visit.
• Take a break from studying once in a while to enjoy events on campus.
 Apply for scholarships and REU opportunities. Attend a professional conference to network and connect with the scientific community. Research graduate school programs if you're considering that pathway.

TERM 1. FALL

TERM 1: FAL	L			
GEOG 2202 Environmental Science	3 CREDIT HOURS		CRUSH TUUR	 Take upper-level electives to prepare you for your career/graduate programs. Study for the licensure exam (Professional Track students).
E: SOCIAL SCIENCES	3 CREDIT HOURS			,
F: MAJOR COURSE	3 CREDIT HOURS		COURSE	
ELECTIVE	3 CREDIT HOURS			
ELECTIVE	3 CREDIT HOURS			• Be a leader in the Program by being a Club officer.
MILESTONE: • TARGET: 105 CREDIT HOURS COMPLETE	ED (106/105)		PLACE	 Serve as a TA again or seek other employment/ volunteering opportunities on campus.
TERM 2: SPRII	NG		PERSPECTIVES	 Read books or listen to podcasts to expand your thinking about how geosciences affects people and society.
GEOL 4501 Geology Seminar	CREDIT HOUR			Become a member of a geology professional
ELECTIVE	4 CREDIT HOURS	Ę		organization and get involved as soon as you can!
ELECTIVE	4 CREDIT HOURS			
ELECTIVE	4 CREDIT HOURS		3.	
ELECTIVE	3 CREDIT HOURS		U	
MILESTONES: • COMPLETE GEOL 4064 • Complete Seminar (Geol 4501) • Target: 120 Credit Hours Complete	ED (122/121)		YOURSELF	 Get organized with important dates! Graduation application, job application, grad school stuff, class projects, interviewsput all those dates in your phone so that you can stay on top of your busy schedule this final year.
15 FALL CREDIT HOURS + 16 SPRING = 31 CREDIT HOURS	S:		PATH	 Request letters of recommendation from professors (at least 2 weeks before you need them). Apply to graduate programs in the fall or early winter or apply to jobs in the spring.
 Fall, odd-numbered years: GEOL 3603 Environmental Geomorphology, GEOL 4044 Engineering Geology Spring, even-numbered years: GEOL 4083 Environme Spring, odd-numbered years: GEOL 4014 Geochemisi 	Geology, GEOL 4003 ntal Geochemistry			

YEAR 4

TERM 1: FAL			
GEOG 2202 Environmental Science	3 CREDIT HOURS	CRUSH YOUR	 Take upper-level electives to prepare you for your career/graduate programs. Study for the licensure exam (Professional Track students).
E: SOCIAL SCIENCES	3 CREDIT HOURS	SH Y SFV	
F: MAJOR COURSE	3 CREDIT HOURS	CRUSH YOU	
ELECTIVE	3 CREDIT HOURS		,
ELECTIVE	3 CREDIT HOURS		Be a leader in the Program by being a Club officer.
MILESTONE: • TARGET: 105 CREDIT HOURS COMPLETE	D (106/105)	FIND YOUR	 Serve as a TA again or seek other employment/ volunteering opportunities on campus.
TERM 2: SPRIN	IG	BROADEN YOUR	society.
GEOL 4501 Geology Seminar	1 CREDIT HOUR	<i>u</i>	Become a member of a geology professional organization and get involved as soon as you can!
ELECTIVE	4 CREDIT HOURS	NECT	
ELECTIVE	4 CREDIT HOURS		
ELECTIVE	4 CREDIT HOURS		-
ELECTIVE	3 CREDIT HOURS		
MILESTONES: • COMPLETE GEOL 4064 • COMPLETE SEMINAR (GEOL 4501) • TARGET: 120 CREDIT HOURS COMPLETE	D (122/121)	TAKE CARE OF VOLIRSEL F	 Get organized with important dates! Graduation application, job application, grad school stuff, class projects, interviewsput all those dates in your phone so that you can stay on top of your busy schedule this final year.
15 FALL CREDIT HOURS + 16 SPRING = 31 CREDIT HOURS = 31 CREDIT HOURS GEOLOGY COURSES OFFERED ONLY ALTERNATE YEARS = Fall, odd-numbered years: GEOL 3603 Environmental (= Geomorphology, GEOL 4044 Engineering Geology = Spring, even-numbered years: GEOL 4083 Environment	: Geology, GEOL 4003 tal Geochemistry	PAVE YOUR PATH	 Request letters of recommendation from professors (at least 2 weeks before you need them). Apply to graduate programs in the fall or early winter or apply to jobs in the spring.
 Spring, even-numbered years: GEOL 4083 Environmen Spring, odd-numbered years: GEOL 4014 Geochemistr 	ital Geochemistry Y		

TERM 1: FAL	L		
GEOG 2202 Environmental Science	3 CREDIT HOURS	CRUSH YOUR COURSEWORK	 Take upper-level electives to prepare you for your career/graduate programs. Study for the licensure exam (Professional Track students).
E: SOCIAL SCIENCES	3 CREDIT HOURS	CRUSH YOU	
F: MAJOR COURSE	3 CREDIT HOURS	CRU	
ELECTIVE	3 CREDIT HOURS		
ELECTIVE	3 CREDIT HOURS		• Be a leader in the Program by being a Club officer.
MILESTONE: • TARGET: 105 CREDIT HOURS COMPLETE	ED (106/105)	FIND YOUR PLACE	 Serve as a TA again or seek other employment/ volunteering opportunities on campus.
TERM 2: SPRII	NG	BROADEN YOUR Perspectives	 Read books or listen to podcasts to expand your thinking about how geosciences affects people and society.
GEOL 4501 Geology Seminar	CREDIT HOUR		Become a member of a geology professional
ELECTIVE	4 CREDIT HOURS	DNNECT -CAMPUS	organization and get involved as soon as you can!
ELECTIVE	4 CREDIT HOURS	CONNEC F-CAMP	
ELECTIVE	4 CREDIT HOURS	CO FF-(
ELECTIVE	3 CREDIT HOURS		
MILESTONES: • COMPLETE GEOL 4064 • COMPLETE SEMINAR (GEOL 4501) • TARGET: 120 CREDIT HOURS COMPLETE	ED (122/121)	TAKE CARE OF YOURSELF	 Get organized with important dates! Graduation application, job application, grad school stuff, class projects, interviewsput all those dates in your phone so that you can stay on top of your busy schedule this final year.
15 FALL CREDIT HOURS + 16 SPRING = 31 CREDIT HOURS	5:	PAVE YOUR PATH	 Request letters of recommendation from professors (at least 2 weeks before you need them). Apply to graduate programs in the fall or early winter or apply to jobs in the spring.
 Fall, odd-numbered years: GEOL 3603 Environmental Geomorphology, GEOL 4044 Engineering Geology Spring, even-numbered years: GEOL 4083 Environme Spring, odd-numbered years: GEOL 4014 Geochemist ELECTIVES OFFERED DURING SUMMER SESSIONS: GEOL 2503 Introduction to Oceanography GEOL 2553 Geology of National Parks 	ntal Geochemistry		